

## CLAIMS

1. A signal measuring device comprising:
  - a local signal generating means that generates a local signal;
  - a mixing means that mixes a signal to be measured with the local signal;
  - a frequency sweeping means that sweeps the frequency of the local signal; and
  - a sweep control means that terminates the sweep upon a termination of a presence section of the signal to be measured.
2. The signal measuring device according to claim 1, wherein said sweep control means receives a trigger signal whose state changes upon the termination of the presence section of the signal to be measured.
3. The signal measuring device according to claim 2, further comprising an intermediate frequency filter that extracts a component within a predetermined frequency band from said mixing means, wherein the trigger signal is generated based upon an output from said intermediate frequency filter.
4. The signal measuring device according to claim 2 or 3,
  - wherein said sweep control means comprises
  - a delay means that delays the trigger signal, and
  - a logical product output means that takes and outputs a logical product of an output from said delay means and the trigger signal, and
  - whether the sweep is terminated or not is determined according to said logical product output means.

5. The signal measuring device according to any one of claims 1 to 4, wherein the signal to be measured is a carrier wave within a burst wave.

6. The signal measuring device according to claim 5, wherein the width of the presence sections of the carrier waves is different from each other.